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FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. FILING DATE APPLICATION NO. 08/14/2001 Larry Kirn JAM-01902/29 8559 09/929,310 09/10/2003 Gifford, Krass, Groh et al **EXAMINER** 280 N. Old Woodward Ave., Suite 400 COX, CASSANDRA F Birmingham, MI 48009 ART UNIT PAPER NUMBER 2816

DATE MAILED: 09/10/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

	·	11
	Application N .	Applicant(s)
,	09/929,310	KIRN, LARRY
Office Action Summary	Examiner	Art Unit
	Cassandra Cox	2816
The MAILING DATE f this communication appears on the c ver sheet with the correspondence address Period f r Reply		
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status		
1) Responsive to communication(s) filed on 19 J	<u>une 2003</u> .	
2a) This action is FINAL . 2b) ⊠ Thi	is action is non-final.	•
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims		
4) Claim(s) 1-10 is/are pending in the application.		
4a) Of the above claim(s) 2 is/are withdrawn from consideration.		
5) Claim(s) <u>1,3-5 and 10</u> is/are allowed.		
6)⊠ Claim(s) <u>6</u> is/are rejected.		
7)⊠ Claim(s) <u>3 and 7-9</u> is/are objected to.		
8) Claim(s) are subject to restriction and/or election requirement.		
Application Papers		
9) The specification is objected to by the Examiner.		
10)⊠ The drawing(s) filed on <u>14 August 2001</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.		
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).		
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.		
If approved, corrected drawings are required in reply to this Office action.		
12) The oath or declaration is objected to by the Examiner.		
Priority under 35 U.S.C. §§ 119 and 120		
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).		
a) All b) Some * c) None of:		
1. Certified copies of the priority documents have been received.		
2. Certified copies of the priority documents have been received in Application No		
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.		
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).		
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.		
Attachment(s)		
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal f	v (PTO-413) Paper No(s) Patent Application (PTO-152)

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DETAILED ACTION

1. Claim 3 is objected to because of the following informalities: Claim 3 depends on canceled claim 2. Appropriate correction is required.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claim 6 is rejected under 35 U.S.C. 102(b) as being anticipated by Miyoshi (U.S. Patent No. 5,134,402).

In reference to claim 6 Miyoshi discloses in figure 4 an apparatus comprising: a source of a primary reference signal (1, 2, 5 and 3, 4, 6); and circuitry (2, 3, 7, 8) for calibrating a secondary reference signal (vp+vn) as a function of the primary reference signal (2vp, 2vn) when the input signal (DIS) is zero (see column 4, lines 45-49). The phrase "for reducing distortion in a high-resolution switching amplifier of the type wherein multiple references are switched to a load in accordance with an input signal" is not given any patentable weight because it is seen to be an intended use of the claimed apparatus.

Double Patenting

4. Claims 8-10 are objected to under 37 CFR 1.75 as being a substantial duplicate of claims 3-5. When two claims in an application are duplicates or else are so close in content that they both cover the same thing, despite a slight difference in wording, it is

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proper after allowing one claim to object to the other as being a substantial duplicate of the allowed claim. See MPEP § 706.03(k).

Allowable Subject Matter

- 5. Claims 7-9 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 6. Claims 1, 3-5 and 10 are allowed.
- 7. The following is a statement of reasons for the indication of allowable subject matter: Claims 7-9 would be allowable because the closest prior art of record fails to disclose a circuit as shown in Figure 2 wherein the secondary reference signal approaches the value of the integral of the primary reference signal at a pulse-width of one (see specification page 6, lines 7-10) in combination with the rest of the limitations of the base claims and any intervening claims.
- 8. The following is an examiner's statement of reasons for allowance: Claims 1 and 3-4 are allowed because the closest prior art of record fails to disclose a circuit as shown in Figure 2 wherein the secondary reference signal approaches the value of the integral of the primary reference signal at a pulse-width of one (see specification page 6, lines 7-10) in combination with the rest of the limitations of the base claims and any intervening claims. Claims 5 and 10 are allowed because the closest prior art of record fails to disclose a circuit as shown in Figure 2 wherein the method of operating includes comparing the integral of the primary reference to the integral of the voltage across the

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load when the input is zero (this is seen to be done by amplifier 229) in combination with the rest of the limitations of the base claim.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Cassandra Cox whose telephone number is 703-306-5735. The examiner can normally be reached on Monday-Thursday from 8:00 AM to 5:30 PM and on alternate Fridays from 8:00 AM to 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy Callahan can be reached on (703)-308-4876. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9318 for regular communications and 703-872-9319 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

C August 26, 2003

JPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800